

## WHAT IS CLAIMED IS

1. A human body monitoring system comprising a monitoring device carried by a person to be monitored and having a transmitting section and a mobile terminal carried by the person to be monitored and having a receiving section, the mobile terminal connected to the monitoring device through a wireless communication system using a weak electric wave and capable of reporting, based on an abnormal data signal received by the mobile terminal from the monitoring device, the abnormal signal and information concerning a position where an emergency occurs to a prespecified contact address or a management center,

wherein the monitoring device has a non-contact biomagnetic field measuring sensor, monitors trends in action potentials in the target person for monitoring with the sensor, and transmits the abnormal data signal to the mobile terminal.

2. The human body monitoring system according to claim 1, wherein a coverage distance of the weak electric wave is within 10 meters.

3. The human body monitoring system according to claim 1 or claim 2, wherein the monitoring device comprises an action potential measuring section comprising the biomagnetic field measuring sensor; a trend data converting section for converting information concerning the action potentials to digital data in the chronological order; a data accumulating section for serially accumulating the trend data; a data determining section for determining whether accumulated data is normal or abnormal; a pattern analyzing section for determining whether a continuous pattern of action potential trend data groups determined as abnormal by the data determining section is abnormal or not; a transmitting section for transmitting a signal classifying and indicating a degree of

abnormality determined as abnormal by the pattern analyzing section to the mobile terminal; a fixed time signal generating section for generating a connection confirmation signal irrespective of a result of determination by the pattern analyzing section; and a control section for controlling each of the sections above.

4. The human body monitoring system according to claim 1 or claim 2, wherein the monitoring device comprises an action potential measuring section comprising the biomagnetic field measuring sensor; a trend data converting section for converting information concerning the action potentials to digital data in the chronological order; a data accumulating section for serially accumulating the trend data; a data determining section for determining whether accumulated data is normal or abnormal; a transmitting section for transmitting a signal classifying and indicating a degree of abnormality determined as abnormal by the data determining section to the mobile terminal; a fixed time signal generating section for generating a connection confirmation signal irrespective of a result of determination by the data determining section; and a control section for controlling each of the sections above.

5. The human body monitoring system according to any of claims 1 to 4, wherein the mobile terminal comprises a received signal analyzing section for analyzing an abnormal data signal received by the receiving section and notifying a result of the analysis to a control section of the mobile terminal.